UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/506,467	08/11/2005	Yingjian Liu	58260-011300	8948
	7590 11/29/200 TRAURIG, LLP	EXAMINER		
MET LIFE BU	ILDING	SIM, YONG H		
200 PARK AVENUE NEW YORK, NY 10166			ART UNIT	PAPER NUMBER
			2629	
		•		
			NOTIFICATION DATE	DELIVERY MODE
			11/29/2007	ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

SchindlerB@gtlaw.com LucasCh@gtlaw.com NYIPmail@gtlaw.com

		Application No.	Applicant(s)			
		10/506,467	LIU ET AL.			
	Office Action Summary	Examiner	Art Unit			
		Yong Sim	2629			
Period fo	- The MAILING DATE of this communication app r Reply	ears on the cover sheet with the c	orrespondence address			
A SHO WHIC - Exten after S - If NO - Failur Any re	DRTENED STATUTORY PERIOD FOR REPLY HEVER IS LONGER, FROM THE MAILING DASIONS of time may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. period for reply is specified above, the maximum statutory period we to reply within the set or extended period for reply will, by statute, apply received by the Office later than three months after the mailing d patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be time will apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).			
Status						
1)⊠	Responsive to communication(s) filed on <u>9/17/2007</u> .					
2a)⊠	This action is FINAL. 2b) This action is non-final.					
•	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.					
Disposition	on of Claims					
5)□ 6)⊠ 7)⊠	Claim(s) <u>1-8</u> is/are pending in the application. 4a) Of the above claim(s) is/are withdray Claim(s) is/are allowed. Claim(s) <u>1,2,7 and 8</u> is/are rejected. Claim(s) <u>3-6</u> is/are objected to. Claim(s) are subject to restriction and/or					
Application	on Papers					
9) 🗌 -	The specification is objected to by the Examine	r.				
·	10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.					
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority u	nder 35 U.S.C. § 119					
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.						
Attachment						
2) Notice 3) Inform	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO/SB/08) r No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	ate			

10/506,467 Art Unit: 2629

DETAILED ACTION

Response to Arguments

1. Applicant's arguments with respect to claims 1 - 8 have been considered but are most in view of the new ground(s) of rejection.

Claim Rejections - 35 USC § 103

- 1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. The factual inquiries set forth in *Graham* v. *John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:
 - 1. Determining the scope and contents of the prior art.
 - 2. Ascertaining the differences between the prior art and the claims at issue.
 - 3. Resolving the level of ordinary skill in the pertinent art.
 - 4. Considering objective evidence present in the application indicating obviousness or nonobviousness.
- 3. Claims 1 2 and 7 8 are rejected under 35 U.S.C. 103(a) as being unpatentable over Oda (US 5,646,377) in view of Lee et al. (Hereinafter "Lee" US 6,476,799 B1).

Re claim 1, Oda teaches a wireless and passive tableting apparatus (Fig. 1 "Point detecting device") for computer inputting (100 "host computer" Fig. 1) comprising

10/506,467 Art Unit: 2629

a tablet (10 "sensor panel/tablet" Fig. 1) and a pen (30 "pointing device" Fig. 1), characterized in that nothing wires the pen (See Fig. 1) and the tablet and no battery is in the pen (See Fig. 1. The pen does not comprise a battery.), the tablet which can sense pressure from the pen (Col. 7, lines 20 – 23; "The pointing device is a pen which is constituted to vary the capacitance of the resonant circuit when the pen is pressed onto the panel/tablet.") comprises a transmitting circuit (24 "transmitting unit/circuit" Fig. 1), a receiving circuit (25 "receiving unit/circuit" Fig. 1), an amplifying circuit (A "amplifier" Fig. 10), a phase angle and amplitude detecting circuit (Col. 17, lines 31 -35; "The signal detecting unit processes and operates the amplitude and phase angle of the received signal.") and an integrating circuit (Col. 25, lines 63 – 67; "a signal processing circuit generates the real number part of the aimed frequency component of the received signals by integration." The integration circuit is within the signal processing circuit.); and the pen comprises a paralleled resonant circuit composed of capacitors and inductors (Col. 17, lines 15 – 17; "The pointing device includes a coil/inductor, capacitor and a switch. The coil and capacitor constitute a resonant circuit." See Fig. 1. The coil and capacitor are in parallel.); the connection relations between them are as follows: an auxiliary CPU (100 "computer" fig. 1), which generates a square wave, connects with the transmitting circuit, which can transmit electromagnetic wave continuously; the pen circuit receives the electromagnetic wave transmitted from the transmitting circuit to produce a resonant signal; the resonant signal is transmitted to the receiving circuit continuously (Col. 18, line 64 – Col 19, line 5; "provide a constant received signal. A transmitter transmits a signal to the pointing

10/506,467 Art Unit: 2629

device/resonant circuit and a receiver arranged at the opposite end of receives the signal generated by the pointing device and the transmitter.), and amplified by an amplifying circuit that connects with the receiving circuit; the amplified signals is inputted into the phase angle and amplitude detecting circuit (See Fig. 20(b). Col. 25, lines 43 – 50; "the add operation is performed in a preamplifier which is a signal input section of the signal detecting unit. The added signals are properly amplified an then output to the succeeding phase detector."), and the signals output from the phase angle and amplitude detecting circuit are inputted into a primary CPU via the integrating circuit (Fig. 21 shows an integrating circuit which is included in the processor 80 sends the signal to the computer 100).

But does not expressly teach a continuously generated square wave.

However, Lee teaches an apparatus for the wireless capture of coordinate-shift information wherein a continuous square waves are provided by the pulse generator to detect the coordinate location of a wireless pen (Lee: Fig. 6).

Therefore, taking the idea of Oda and Lee, as a whole, it would have been obvious to a person having ordinary skill in the art to incorporate the idea of using the continuous pulse signals as taught by Lee into the wireless apparatus of Oda to obtain a wireless and passive tabletting apparatus wherein a continuous square wave is generated to continuously detect and update the position of the wireless pen.

Re claim 2, the modified teachings of Oda teach the wireless and passive tableting apparatus of claim 1.

10/506,467 Art Unit: 2629

But does not expressly disclose the circuit arrangement of claim 2.

However, Lee teaches a transmitting circuit and receiving circuit comprising coils in a first direction, coils in a second direction and chips (Lee: See Fig. 3); terminals of the receiving circuit are connected to pins corresponding to ports of each of a set of chips for a first subset of chips (Lee: Fig. 3, U1 and U2), said chips have ports corresponding to pins connecting with the coils in the first direction respectively (Lee: Fig. 3, x0 - 7 of U1 and U2), the coils have output terminals which are grounded (Lee: See Fig. 3), said chips have terminals (Lee: Fig. 3, terminals A, B and C of U1 and U2) corresponding to pins used for chip selection, said chips have terminals corresponding to pins which are gating terminals, all connecting with the primary CPU, and each of said chips has a terminal corresponding to a pin connected to a negative voltage (Lee: See Fig. 3 for the detailed layout.);

the square wave generated by the auxiliary CPU is inputted into a pin corresponding to a port of each of a second subset of chips via terminals of the transmitting circuit (See the line connected to port X of each chip); and

for the second subset of chips, said chips have ports corresponding to pins connecting with the coils in the first direction respectively, the coils have output terminals which are grounded, said chips have terminals corresponding to pins used for chip selection (See the configuration of U3 and U4 in fig. 3.),

said chips have terminals corresponding to pins which are gating terminals, all connecting with the primary CPU, and each of said chips has a terminal corresponding to a pin connected to a negative voltage (See Fig. 3 for the detailed layout.).

Art Unit: 2629

Therefore, taking the combined teachings of Lee and Oda, as a whole, it would have been obvious to a person having ordinary skill in the art to incorporate the idea of using the circuit layout as taught by Lee into the apparatus of Oda to obtain a wireless and passive tableting apparatus having the circuit arrangement as described above which includes a plurality of multiplexers for scanning the movement of the wireless pen.

Re claim 7, the modified teachings of Oda teach the wireless and passive tabletting apparatus of claim 1.

But does not expressly disclose the connection relations of the parallel resonant circuit in the pen circuit.

However, Lee teaches the connection relations of the parallel resonant circuit in the pen circuit wherein an inductor connects directly with a variable capacitor and a plurality of capacitors in parallel (Lee: See Fig. 5; C1, C2, C3 and C4 are in parallel with L1);

the plurality of capacitors connect directly in parallel with a series combination of a switch and a resistor (Lee: See Fig. 5; the capacitors are connected in parallel with a resistor R1 and SW3), wherein one end of the switch and one end of the resistor are directly connected and the other end of the switch connects with the other end of the resistor to form a loop (Lee: See Fig. 5).

Therefore, taking the combined teachings of Oda and Lee, as a whole, it would have been obvious to a person having ordinary skill in the art to incorporate the idea of

having a pen with the configuration as taught by Lee into the wireless and passive tableting apparatus as taught by Oda to obtain a wireless and passive tableting apparatus wherein a pen comprises a resonant circuit and a resistor and a switch connected in such a way to allow the user to utilize a push-button circuit make selections in a tableting apparatus.

Re claim 8, Lee teaches a switch of the pen which is a switch on the pen, functioning as the right button of a mouse (Col. 7, lines 20 - 25; "The second push-button circuit 230 includes a plurality of switches SW1, SW2 and SW3, each of which can be a push-button. and operate in a similar manner as the first push-button circuit 130 above (130 is the push-button for a mouse. Therefore, one of the buttons will inherently include the right button.).

Allowable Subject Matter

2. Claims 3 - 6 objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Conclusion

3. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP

10/506,467 Art Unit: 2629

§ 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Yong Sim whose telephone number is (571) 270-1189. The examiner can normally be reached on Monday - Friday (Alternate Fridays off) 7:30-5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Amr Awad can be reached on (571) 272-7764. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

10/506,467 Art Unit: 2629

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

YHS 11/24/2007

SUPERVISORY PATENT EXAMINER